

0995458016163

11. The apparatus of claim 8, wherein the module for enhancing the appearances of the image  
includes a module for automatically enhancing contrast levels of the human faces.

1 12. The apparatus of claim 8, wherein the module for enhancing the appearances of the image  
2 includes a module for automatically enhancing color levels of the human faces.

3 13. The apparatus of claim 8, wherein the module for locating the human faces includes a  
4 module for automatically locating eyes in the human faces.

5 14. The apparatus of claim 13, wherein the module for enhancing the appearances of the  
6 image comprises:

7 a module for automatically determining if there exists a red eye artifact; and

8 a module for reducing or removing the red eye artifact from the human faces.

9 15. A computer readable medium comprising instructions for image enhancement using face  
10 detection, the instructions comprising:

11 automatically detecting human faces in an image using face detection algorithms;

12 automatically locating the human faces in the image; and

13 automatically enhancing an appearance of the image based on the human faces in the  
14 image.

15 16. The computer readable medium of claim 15, wherein the instructions for enhancing the  
16 appearance of the image include automatically enhancing lightness levels of the human faces.

17 17. The computer readable medium of claim 15, wherein the instructions for enhancing the  
18 appearance of the image include automatically enhancing contrast levels of the human faces.

19 18. The computer readable medium of claim 15, wherein the instructions for enhancing the  
20 appearance of the image includes automatically enhancing color levels of the human faces.

21 19. The computer readable medium of claim 15, wherein the instructions for locating the  
22 human faces include automatically locating eyes in the human faces.

23 20. The computer readable medium of claim 19, wherein the instructions for enhancing the  
24 appearance of the image comprises:

25 automatically determining if there exists a red eye artifact; and

26 reducing or removing the red eye artifact of the human faces.